ACTUARIAL VALUATION OF THE EMPLOYEES' RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND

AS OF JUNE 30, 1992

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SECTION I - SUMMARY OF VALUATION RESULTS

Contribution Requirements

The contribution requirements for fiscal 1993-94 for the State Employees' Retirement Plan and the Teachers' Retirement Plan are set out below. For comparison the contribution requirements for the previous two fiscal years are also shown.

	Fiscal 1993-94	Fiscal 1992-93	Fiscal 1991-92
State Employees Plan:			
Normal Cost	12.72%	11.59%	13.35%
Unfunded Liability Cost	6.35%	<u>6.53%</u>	<u>6.10%</u>
Total Cost	19.07%	18.12%	19.45%
Less Employee Contribution	<u>7.75%</u>	<u>7.75%</u>	<u>7.75%</u>
Employer Cost	11.32%	10.37%	11.70%
Teachers Plan:			
Normal Cost	14.77%	13.31%	14.37%
Unfunded Liability Cost	9.75%	<u>9.93%</u>	9.23%
Total Cost	24.52%	23.24%	23.60%
Less Employee Contribution	<u>8.50%</u>	<u>8.50%</u>	8.50%
Employer Cost	16.02%	14.74%	15.10%

For fiscal 1993-94, the Teachers' Plan rate is to be paid 40% by the State and 60% by the cities and towns. The overall rate of 16.02% includes the cost of prior fiscal year State contribution deferrals. The deferral represents 0.58% of the rate and is payable by the State, the cities and towns share is therefore 60% of 15.44% or 9.26% and the State will contribute the balance of the 16.02% or 6.76%.

SECTION I - Summary of Valuation Results (cont'd)

Towns which did not Participate in the 1990 Early Retirement Incentive Program

There were a number of towns which did not participate in the 1990 early retirement incentive program. These were:

Code Number:	2003	Burillville
	2009	East Greenwich
	2015	Jamestown
	2018	Little Compton
	2025	North Smithfield

As a result the contribution requirement for these towns is reduced by the cost of the early retirement incentive program. The overall contribution requirement for fiscal 1993/94 of the group is 14.27% and as above the State will meet the full cost of prior fiscal year deferrals of 0.58%. The contribution for these towns is therefore 8.21% and the State contributes the balance of 6.06%.

Plan Experience

The employer cost has increased from the current cost for the fiscal year ending June 30, 1993 due to a number of factors:

- Pay increases were assumed to be zero for fiscal 1991-92 only. However, average pay increased by 3.3% for State Employees and 2.9% for Teachers which has caused the liabilities and costs of the System to increase.
- The actuarial value of assets (utilized to calculate the employer contribution) returned 10% for the year versus an expected return of 8% this leads to a reduction in the employer costs.
- The participant group average age increased by approximately 0.5 years and caused an increase to the employer contribution. (This is because the cost of providing pension benefits for employees increases with age.)

SECTION I - Summary of Valuation Results (cont'd)

When assessing the relative impact of the above factors it is appropriate to compare year to year changes in the total cost of benefits including employee contributions. When looked at in this manner, the increase from year to year is a smaller proportion of the total cost than the increase in the employer cost net of employee contributions, due to the fact that employee contributions are held constant. Any gains or losses are passed on to the employer's share of the cost.

Funded Status of the System

There are several measures commonly used to describe the funded status of the plan. The following tables summarize two measures which are described below.

Projected Benefits/Actuarial Asset Value

The ratio of assets to the projected benefit liability compares the actuarial value of assets to the value of accrued benefits with projected salary increases to retirement.

The projected benefit ratio remained relatively constant between 1991 and 1992. This is due to the offsetting effect of the larger than expected pay increases versus the better than expected asset return. Note the improvement between 1990 and 1991 for both plans. This reflects the beneficial affect of certain assumption changes partially offset by the deferral of State Contributions and early retirement incentive programs.

	Ratio of Assets to Liabilities												
	June 30, 1992	June 30, 1991	June 30, 1990										
State Employees	62.42%	62.56%	60.31%										
Teachers	56.63%	56.66%	54.50%										

SECTION I - Summary of Valuation Results (cont'd)

Vested Benefits/Market Value of Assets

The ratio of assets to the vested benefit liability compares the value of vested benefits (basically the value of accrued benefits with no allowance for salary projection for participants with more than ten years of service the value of former employee's benefits and the accumulated value of employee contributions for participants with less than ten years of service) to the market value of assets.

The vested benefit ratio has improved since the last year. For this ratio, salaries are not projected and liabilities are compared to the market value of assets. The improvement in the ratio results from the asset return achieved by the market value of assets of 13.5%.

	Ratio of Assets to Liabilities												
:	June 30, 1992	June 30, 1991	June 30, 1990										
State Employees	80.67%	77.54%	87.39%										
Teachers	77.46%	75.47%	91.43%										

The Early Retirement Incentive Program of 1989

The incentive program allowed participants with 25 or more years of service (or if over age 60, 10 or more years of service) to retire and receive a 10% enhancement in their benefit service. The program was only available to state employees and approximately 750 state employees took the incentive offered. The cost of the incentive is spread over 30 years, as a dollar amount which will increase in proportion with expected payroll, (see Appendix II for a description of the funding method) commencing in fiscal year 1991-92. The cost of the program is 0.66% of payroll.

SECTION I - Summary of Valuation (cont'd)

The Early Retirement Incentive Program of 1990

Unlike the 1989 program, the 1990 program was available to both state employees and teachers. Any participants with 23 or more years of service, could retire and receive a 10% enhancement in their benefit service. In addition, the benefit was based on the final year's salary (rather than a three year average). Approximately 500 state employees and 800 teachers took the 1990 incentive program.

For the State Employees Plan, the cost of the incentive is spread over 30 years, as a dollar amount which will increase in proportion with expected payroll, commencing in the fiscal year 1992-93. The cost for the State Employees Plan is 0.64% of payroll.

For the Teachers' Plan, the cost is spread over a 24 year period (see Exhibit III for a description of the funding method) commencing in the fiscal year 1992-93 and is equal to 1.75% of payroll.

Assets of the Retirement System

Section III describes the assets of the retirement system, analyzes the cash flow during the previous fiscal year and shows the proportion of funds invested in each of the major investment categories.

SECTION I - Summary of Valuation (cont'd)

The table below provides a plan year summary of certain key statistics of the performance and transactions of the retirement fund:

to the second of	7/1/91 to _6/30/92	7/1/90 to 6/30/91	7/1/89 to 6/30/90
Time-weighted return on market value of assets ⁽¹⁾	13.5%	7.5%	12.3%
Market Value of Assets at end of period	\$2,569,300,000	\$ 2,316,700,000	\$2,222,100,000
Actuarial Value of Assets at end of period	\$2,483,700,000	\$ 2,316,700,000	\$1,962,800,000
Total Contribution	\$ 138,000,000	\$ 149,700,000	\$ 196,600,000
Total Benefit Payments	\$ 196,700,000	\$ 203,600,000	\$ 139,400,000

⁽¹⁾ As prepared by Wilshire Associates

The return achieved by the fund should be compared with the assumed return of 8%.

The actuarial value of assets recognizes one-third of the investment gain in excess of the assumed return of 8%. Hence on an actuarial value of assets the fund returned approximately 10% during fiscal 1992. The remaining two-thirds of the gain will be recognized in costs for fiscal years 1994 and 1995. Spreading investment gains and losses over a three year period helps to reduce volatility in the plan's contribution requirements.

SECTION II - EMPLOYEE DATA

Active Employees

The pertinent information for active employees as of June 30, 1992, can be summarized as follows:

	State Er	nployees	Teach	hers
	June 30, 1992	June 30, 1991	June 30, 1992	June 30, 1991
Number of Covered Employees	14,513	14,590	11,594	11,420
Average Annual Salary	\$28,200	\$27,300	\$38,700	\$37,600
Average Age (years)	43.8	43.3	43.6	43.0
Average Service (years)	11.0	10.2	14.9	14.4
Number of Vested Employees	7,236	7,163	7,450	7,101
Number of Employees Eligible for Retirement	1,126	1,150	879	764

The average annual salary for state employees rose slightly from \$27,300. This represents an increase of 3.3%, and is down slightly from the 3.8% average increase from June 1990 to June 1991. The average salary for an active teacher increased by 2.9% from \$37,600 to \$38,700, returning the compensation to the level as of the June 30, 1990 valuation.

The average age for teachers increased from 43.0 years to 43.6 years. Average years of service rose by approximately one-half year as well. When viewed in conjunction with the increases in both the number of teachers eligible for retirement and the number of vested teachers, it is apparent that there are few terminations or retirements at older ages due to the impact of the recent early retirement incentive programs.

SECTION II - Employee Data (cont'd)

The active population for state employees appears to have been similarly impacted by the early retirement incentive programs. Average age and service increased by 0.5 and 0.8 years respectively. The number of employees eligible for retirement under the normal provisions of the plan dropped by 24, from 1,150 to 1,126, but the number of vested employees increased by 73 to 7,236.

Missing data was estimated by using averages for similar employees with available data. For example, a person missing a date of hire, would be given an estimated date of hire based upon his date of birth compared to other similar employees. For active employees missing salaries employee contribution balances and prior salary history were used to calculate estimated salaries. For active state employees there were 41 missing salaries, 23 missing dates of birth, and 43 missing dates of hire. For active teachers there were approximately 2,550 missing salaries, 350 missing dates of hire and 370 missing dates of birth. The greater number of missing figures for teachers can be attributed to the greater difficulty in obtaining their data. In our opinion, in light of the large populations we are dealing with and the reliability of our estimating techniques, the amount of missing data that required estimation does not have a material impact on the results of the valuation.

Tables 1A and 1B provide a distribution of employees by age and service for state employees and teachers, respectively.

Retirees and Beneficiaries

The data provided for analysis of retiree and beneficiary liability included dates of hire and retirement, sex, monthly benefit, type of benefit, and payment option. The more significant statistics for retirees and beneficiaries are summarized as follows:

SECTION II - Employee Data (cont'd)

	State En	nployees	Teac	<u>hers</u>
	June 30, 1992	June 30, 1991	June 30, 1992	June 30, 1991
Pensioners				
Number	7,875	7,851	4,657	4,704
Average Age	70.5	70.0	69.3	68.8
Average Monthly Benefit	\$880	\$850	\$1,715	\$1,697
Beneficiaries				,
Number	582	565	169	130
Average Age	71.8	72.0	68.6	68.3
Average Monthly Benefit	\$650	\$616	\$847	\$782

As for the active employees, data for pensioners remained relatively stable with a slight growth in the number of pensioners for the State Plan and a small decrease in number for the Teachers' Plan. Average benefits grew slightly reflecting the impact of the Cost of Living Adjustments. The figure of 4,657 pensioned teachers includes 17 who are also receiving payments as beneficiaries.

Tables 2A and 2B show distributions for pensions in payment status as of June 30, 1992 by age and pension type. These tables also indicate total monthly pension payments by age, average payments by age, and total monthly payments by type.

Table 1A - Distribution of State Employees in Active Service

Years of Service and Average Annual Earnings

Total	4 10,922	378 21,945	1,185 24,058	1,747 25,997	2,215 27,854	2,381 30,364	2,224 30,994	1,591 29,310	1,295 28,535	1,008 27,952	347 27,864	106 24,081	32 15,626	14,513 \$28,228
+0+									2 31,617	4 34,932	6 28,767	1 27,631	1 35,541	14 \$31,339
35-39								4 36,225	7 38,267	9 56,564	3 43,083	31,997		26 \$44,119
30-34							6 31,641	29 36,027	33 40,430	23 42,131	12 41,584	2 58,873		105 \$29,567
25-29						22 29,590	99 34,129	93 39,446	61 34,449	47 33,722	19 32,222	6 25,947		347 \$35,021
20-24					76 27,174	353 32,701	403 37,923	220 32,120	230 28,570	166 28,651	48 28,735	11 22,288	3 29,128	1,510 \$32,448
15-19				60 25,517	543 28,269	618 33,513	469 34,012	309 31,149	275 29,765	240 28,197	75 30,074	20 31,080	.8 23,183	2,617
10-14			22 22,967	367 26,020	549 28,528	443 31,159	393 29,138	323 29,301	260 28,585	221 26,440	97 25,311	29 20,817	12 10,960	2,716 \$28,314
2-6		25 20,760	333 23,406	678 27,004	495 29,232	476 28,090	439 26,711	349 25,380	248 25,856	200 25,436	62 23,639	23 21,860	7 8,010	3,335 \$26,558
9-	4 10,922	353 22,029	830 24,349	642 24,964	552 25,635	469 26,049	415 26,385	264 25,612	179 25,614	98 25,707	25 28,006	11 16,573	1 4,050	3,843 \$25,013
Age	0-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	62-69	70-74	75+	TOTAL Average Pay

Table 1B - Distribution of Teachers in Active Service

Years of Service and Average Annual Earnings

Total	0	112 22,757	654 25,543	754 30,916	1,517 35,512	3,401 39,495	2,792 41,849	1,348 42,574	554 43,572	314 42,905	126 43,724	22 44,031		11,594 \$38,734
40+									43,281	5 42,511	14 43,346	4 48,682		24 \$43,655
35-39								2 43,002	19 43,685	30 46,415	6 49,934	2 44,963		59 \$45,729
30-34							2 41,556	111 46,765	73 46,331	36 44,736	6 44,449	3 48,068		231
<u>25-29</u>						10 43,090	419 44,350	370 44,564	82 45,054	38 43,955	14 45,388	2 48,214		935 \$44,490
20-24					10 41,626	1,130 42,556	1,327 43,451	330 43,284	158 43,890	99 42,576	48 43,722	6 40,164		3,108 \$43,096
15-19				2 40,116	230 41,242	928 41,522	289 42,701	161 42,572	93 43,148	42 43,358	20 42,398	2 42,249		1,767 \$41,914
10-14			1 27,146	81 37,722	373 40,331	384 38,945	1.67 42,828	113 42,022	42 42,493	29 42,242	9 45,923	2 38,568		1,201 \$40,354
2-9			92 27,514	297 32,906	330 35,342	399 37,108	280 38,137	115 39,439	42 44,772	15 42,309	8 37,101	1 40,768		1,579 \$35,997
0-4		112 22,749	561 25,217	374 27,799	574 30,072	550 31,852	308 33,588	146 35,634	44 35,826	20 34,526	1 43,912			2,690 \$29,642
<u>Age</u>	0-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	69-69	70-74	75+	TOTAL Average Pay

Table 2A - Distribution of Pensioners - State Employees

Number of Pensioners and Total Monthly Pensions Paid by Age

Dercent of	Pensioners/ Average Pension		\$ 583.00 0.21%	661.83	2.32%	1,142.97	6.13%	1,922.27	10.40%	1,862.73	16.77%	1,136.40	22.04%	838.54	18.83%	735.04	12.67%	646.69	6.80%	585.19	2.68%	561.58	%96.0	595.08	0.18%	529.68	%00.0	235.00		\$ 834.00
	Total by Age		\$ 1,166 23	15,222	148	169,159	233	447,890	408	759,995	1,078	1,225,037	1,920	1,609,994	1,872	1,375,989	1,431	925,413	849	496,826	349	195,991	118	70,219	25	13,242	•	235	8,457	\$ 7,306,378
	Ordinary <u>Disabilities</u>	0	ന ക	2,799	49	20,658	24	13,644	62	33,874	66	43,175	97	38,821	74	30,084	51	14,833	30	8,477	67	404	0	0	0	0	0	0	497	\$ 206,769
	Accidental <u>Disabilities</u>		\$ 1,003	7,129	10	8,574	2	2,718	=	5,671	17	10,787	23	15,252	18	10,597	8	4,803	80	5,292	-	802	0	0	0	0	0	0	108	\$ 72,658
Pension Type	Legislator's Pension	0	o c		0	0	9	6,087	18	15,067	34	30,107	53	26,887	31	30,466	26	24,249	15	15,238	9	4,388	8	2,076	8	1,245	0	0	169	\$ 155,810
	Beneficiaries		\$ 133	5,294	. 21	11,080	18	17,303	27	17,501	52	41,323	06	55,950	114	74,344	105	58,856	71	51,032	47	27,042	23	15,225	S	3,273	0	0	582	\$ 378,356
	Service Retirements	0	o c	0	89	128,847	180	408,138	290	687,882	876	1,099,645	1,681	1,473,084	1,635	1,230,498	1,241	822,672	725	416,787	293	163,355	93	52,918	18	8,724		235	7,101	\$ 6,492,785
	<u>Age</u>	< 30	000	60-00	40-49		50-54		55-59		60-64		62-69		70-74		75-79		80-84		85-89		90-94		95-99		100+			Total

Table 2B - Distribution of Pensioners - Teachers Number of Pensioners and Total Monthly Pensions Paid by Age

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70 71 60 60	Percent of	Average Pension	%90.0	\$ 775.33	0.12%	823.17	3.60%	2,087.06	8.15%	2,732.16	11.67%	2,593.84	15.52%	1,958.27	16.09%	1,495.09	14.40%	1,243.83	11.23%	1,206.34	11.15%	1,148.53	5.81%	1,054.43	1.61%	981.83	0.48%	1,106.13	0.29%	383.14		\$ 1,672.56
	Total hy	Age	က	\$ 2,326	9	4,939	174	363,149	394	1,076,471	564	1,462,924	750	1,468,699	778	1,163,182	969	865,704	543	655,041	539	619,059	281	296,295	78	76,583	23	25,441	14	5,364	4,843	\$ 8,085,176
	California	Ordinary Disabilities	0	0	~-	956	19	14,514	-	9,953	22	22,085	24	22,204	25	20,550	17	13,941	7	4,778	2	3,862	_	1,068	-	615	0	0	0	0	133	\$ 114,526
Туре	C C C C C C C C C C C C C C C C C C C	Accidental Disabilities	0	0	0	0	5	99,766	-	1,443	6	2,941	80	11,960	က	3,144	6	3,019	61	2,257	0	0	0	0	0	0	0	0	0	0	23	\$ 31,530
Pension Type		Beneficiaries	က	\$ 2,326		2,553	7	4,275	7	5,322	16	13,584	16	14,463	15	12,874	12	8,347	20	17,235	15	11,407	=	6,726	S	2,571	0	0	0	0	130	\$ 101,683
	· · · · · · · · · · · · · · · · · · ·	Service Retirements	0	9	61	1,430	143	337,594	375	1,059,753	524	1,424,314	702	1,420,072	735	1,126,614	665	840,397	514	630,771	519	603,790	269	288,501	72	73,397	53	25,441	14	5,364	4.557	\$ 7,837,437
		Age	> 30		30-39		40-49		50-54		55-59		60-64		62-69		70-74		75-79		80-84		85-89		90-94		95-99		100+		Total	

SECTION III - PLAN ASSETS

Market Value of Assets

The Employees' Retirement Fund receives all member and employer contributions. The assets are invested by the State Investment Commission, with the income being added to the Fund and available for reinvestment. Payments from the Fund are primarily for refunds of employee contributions, lump sum death benefits, and pension payments. Contribution refunds occur when an employee terminates employment before completing ten years of service and elects to take a refund, or when he dies after retirement without having received payments from the Fund equal to his total contributions.

Table 4 shows a summary of income and expenditures for the years ended June 30, 1992 and 1991. Due to a stronger than assumed return on assets, for the plan year ending June 30, 1992, the Employees' Retirement Fund showed a net increase of \$204,554,596.

The total market value of assets as of June 30, 1992 was \$2,569,295,800. This is divided among the plans as follows:

State Employees	\$ 1,092,464,600	42.5%
Teachers	1,399,495,400	54.5%
Teachers' Survivors	77,335,800	_3.0%
Total	\$ 2,569,295,800	100.0%

Table 5 shows the composition of the investments of the fund.

Table 6 shows the allocation of reserves to the State Employees Plan, Teachers Plan, and Teacher's Survivors Plan as of June 30, 1992 and 1991. The reserve allocations are based on the book value of assets.

SECTION III - Plan Assets (cont'd)

Actuarial Value of Assets

As of the June 30, 1991 valuation, a new method to calculate the actuarial value of assets was employed. The new method allows for a three year spread of gains and losses in the Market Value. Table 3 shows the development of the actuarial value of assets. The total Actuarial Value of Assets at June 30, 1992, was \$2,483,738,300 and is divided among the plans based on a prorata share of the market value of assets as follows:

State Employees	\$ 1,056,085,500	42.5%
Teachers	1,352,892,300	54.5%
Teachers' Survivors	74,760,500	3.0%
Total	\$ 2,483,738,300	100.0%

Table 3 - Calculation of Actuarial Asset Value at June 30, 1992

1.	Actuarial Asset Value at June 30, 1991 (equal to market)	\$	2,316,654,509
2.	Contributions		
	(a) Employees(b) State(c) Municipal(d) Miscellaneous(e) Total	\$	68,546,610 23,030,192 45,706,551 754,848 138,038,201
3.	Benefit Payments and Other Disbursements		
	 (a) Pension Benefit (b) Cost of Living Adjustments (c) Death Benefits (d) Refund of Contributions and other payments (e) Total 	\$	163,516,599 23,289,638 2,597,835 <u>6,614,199</u> 196,718,271
4.	Assumed Return at 8.00%		
	(a) On Assets(b) On Contributions (assume midyear)(c) On Benefit Payments(d) Total	\$ \$	185,332,361 5,521,528 <u>(7,868,731)</u> 182,985,158
5.	Tentative Actuarial Asset Value on June 30, 1992 [1. + 2.(e) - 3.(e) + 4.(d)]		2,440,959,597
6.	Market Value on June 30, 1992		2,569,295,771
7.	Excess of Market over Tentative Actuarial Asset Value		128,336,174
8.	Prior year adjustments not recognized		0
9.	Current Year Experience		128,336,174
10.	Current Year Adjustment to be recognized (1/3 of Experience)		42,778,725
11.	Deferred Gain or (Loss)		85,557,449
12.	Prior Year Adjustments to be recognized		0
13.	Actuarial Asset Value on June 30, 1992 5. + 10. + 12.	\$	2,483,738,322

Table 4 - Summary Statement of Income and Expenses

					,		\$ 284,441,355		203,579,385	\$ 80,861,970
1991				\$ 149,673,949		134,767,406		\$ 181,940,583 2,254,306	19,384,496	
	& BO 651 084		69,021,965		\$ 27,663,856 96,283,294 13,895,976	1,237,811 (4,313,531)				
							\$ 401,272,868		196,718,271	\$ 204,554,596
1992				\$ 138,038,201		263,234,667		\$ 187,506,237 2,597,835	6,614,199	
	200	\$ 69,491,591	68,546,610		\$ 29,898,970 90,238,234 150,068,320	14,500 (6,985,357)				
	:	Employer contributions	Member contributions	Total contributions	Investment income: Dividends Interest Capital gains (and losses)	Other Expenses Net investment income	Total income available for benefit payments	Benefit payments: Pension benefits Death benefits	Contribution retunds and other payments Total benefit payments	Excess of income over expenses

Note: Detail figures may not add to totals shown because of rounding.

Table 5 - Composition of Assets as of June 30, 1992

:	Market Value	Percent of Holdings
Cash/Short Term Investments Short Term Investment Fund Money Market Instruments	\$ 222,664,000	8.7%
Equities - Domestic	1,073,469,000	41.8%
Equities - International	87,415,000	3.4%
Fixed Income - Government	846,451,000	32.9%
Fixed Income - Corporate	81,235,000	3.2%
Fixed Income - In State	31,300,000	1.2%
Real Estate	100,884,000	3.9%
Venture Capital	125,878,000	4.9%
Total Fund Investments	\$ 2,569,296,000	100.0%

Table 6 - Allocation of Book Value Assets by Plan - Reserve Values

1991	787 218 © 853 152 005		996 <u>192</u> 1,049,569,188		389 440 57,802,829		229,482	\$ 1,960,753,504	
	\$ 663,786,787 189,365,218	0	\$ 784,472,996 <u>265,096,192</u> 42		\$ 48,048,389 9,754,440 533		62	8 1	
1992	•	9. 9.25, 1.16, 1.43	,020 ,622 1,174,863,642		.562 .071 65,096,633		231,679	\$ 2,165,308,100	
	\$ 716,504,362 208,611,783		\$ 875,761,020 299,102,622		\$ 54,870,562 10,226,071 es				
	State Employees: Employer reserves Member reserves	Total State Employees reserves Teachers:	Employer reserves Member reserves Total Teacher reserves	Teachers Survivors:	Employer reserves Member reserves Total Teachers Survivors reserves	Unallocated:	Unclaimed benefit reserve	Total Book Value of Assets	

Note: Detail figures may not add to totals shown because of rounding.

SECTION IV - RESULTS OF THE VALUATION

The funding statute calls for the contribution requirement to be calculated as the normal cost of the plan plus the total of the amortization payment for each unfunded cost element. The table below shows the development of the contribution requirement for the State Employees' Plan and the Teachers' Plan.

· .	State Employees' Plan	Teachers' Plan
Normal Cost	12.72%	14.77%
Less Employee Contributions	<u>7.75%</u>	<u>8.50%</u>
Employer Normal Cost	4.97%	6.27%
Unfunded Cost due to:		
Original Unfunded	6.68%	9.76%
1989 Assumption Changes	(0.67%)	0.00%*
1989 Early Retirement Incentive	0.66%	None
1990 Early Retirement Incentive	0.66% 0.64%	1.75%
1991 Assumption and Method Cl	hanges (1.60%)	(2.34%)
Fiscal 1990-91 Deferral	0.34%	0.30%
Fiscal 1991-92 Deferral	0.30%	<u>0.28%</u>
Total Unfunded	6.35%	9.75%
Total Cost as a percentage of payro	II 11.32%	16.02%

^{*} the effect of the 1989 assumption changes in the Teachers Plan was less than the minimum threshold for setting up a separate base, the effect was aggregated with the existing unfunded. See Exhibit III for a description of the amortization method.

The contributions are assumed to be made on a monthly basis. The amounts of the unfunded liabilities in respect of each of the above cost elements together with the length of the remaining amortization period are shown in detail in Exhibit I, parts A3 and B3.

The Teachers' Plan cost is paid 60% by the cities and towns and 40% by the State. However the State will pay the total cost of 0.58% for the contribution deferrals. This results in a contribution requirement for cities and towns of 9.26% and a contribution requirement for the State of 6.76%.

As described in Section I, certain towns elected not to participate in the 1990 early retirement incentive program. The contribution requirement for these towns is 8.21% and for the State is 6.06%.

SECTION IV - Results of the Valuation (cont'd)

State employees contribute to the System at a rate of 7.75% of pay. The inclusion of the additional 0.25% contribution for retiree medical benefits reduces the State contribution by 0.23% (after allowing for refunds on termination). Consistent with this, it has been assumed that the State's contribution to the separate retiree health fund is 0.23% (in addition to the above contribution requirements).

The State Employee's Plan fiscal 1993-94 contribution requirement of 11.32% compares to the fiscal 1992-93 contribution requirement of 10.37%. The increase in the contribution requirement is discussed in Section I Summary of Valuation Results and a complete development of the fiscal 1993-94 contribution is shown in Exhibit I, parts A1, A2 and A3.

The Teachers' Plan fiscal 1993-94 contribution requirement of 16.02% compares to the fiscal 1992-93 contribution requirement of 14.74%. The increase of the contribution requirement is discussed in Section I and a complete development of the contribution for Teachers for fiscal 1992-93 is shown in Exhibit I, parts B1, B2 and B3.

Teacher Survivors Plan

A complete analysis of the finances of the Teacher Survivors Plan is not possible due to lack of sufficient data. However, based on our knowledge of the participant population and the benefits offered, we estimate that the current assets of \$77.3 million, together with future contributions and investment income will be sufficient to meet benefit payments as they fall due.

EMPLOYEES' RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND

CERTIFICATE OF ACTUARIAL VALUATION

This is to certify that we have prepared an actuarial valuation of the plan as of June 30, 1992.

This certificate contains the following attached exhibits:

Exhibit 1 -

Actuarial Cost Development of Fiscal Year 1993-94 Contribution

Percentage

A. State Employees

B. Teachers

EXHIBIT II -

Pension Benefit Obligation, Vested Benefit Liability

EXHIBIT III -

Actuarial Method and Assumptions

EXHIBIT IV -

Summary of Plan Provisions

To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate and in our opinion each individual assumption used (a) is reasonably related to the experience of the plan and to reasonable expectations and (b) represents our best estimate of anticipated experience under the plan.

Malcolm C. Hodge, F.F.A., A.S.A

Associate

Barry M. Alman, F.S.A., M.A.A.A.

Principal

EXHIBIT I - DEVELOPMENT OF CONTRIBUTION PERCENTAGES

A1. State Employees - Development of Normal Cost

The valuation was made with respect to the following data supplied to us by the Retirement Board:

- 14,513 active participants (including 7,236 fully vested)
- 2,033 inactive participants
- 8,457 pensioners (including 582 beneficiaries of deceased pensioners and active employees)

The actuarial factors as of the valuation date are as follows:

1. Actuarial present value of benefits

	(a) Active employees	\$ 1,052,600,400
	(b) Inactive employees	28,055,200
	(c) Retirees and beneficiaries	866,923,700
	(d) Total	\$ 1,947,579,300
2.	Actuarial value of assets	1,056,085,500
3.	Frozen Initial Liability (unfunded liability)	428,793,000
4.	Present value of future employee contributions	281,868,900
5.	Present value of future employer normal costs (1.(d) - 2 3 4.)	180,831,900
6.	Actuarial present value of future compensation	3,637,018,200
7.	Employer normal cost percentage (5. ÷ 6.)	4.97%
8.	Covered Payroll - Employees under Retirement Age	401,497,500
9.	Employer Normal Cost, (7. x 8.)	\$ 19,954,400

A2. State Employees - Development of Employer Cost

1.	Total Covered Payroll	\$ 418,683,300
2.	Employer Normal Cost	19,954,400
3.	Amortization of Frozen Initial Liability	26,732,100
4.	Projected 1993-94 Covered Payroll	437,524,000
5.	1993-94 Employer Normal Cost ((2. ÷ 1.) x 4.)	20,869,900
6.	Total annual cost if paid on July 1, 1993 (3. + 5.)	47,602,000
7.	Total annual cost if paid in uniform installments throughout the year (6. plus one-half year's interest)	\$ 49,506.100
8.	Employer fiscal 1993-94 cost as a percent of payroll (7 ÷ 4)	11.32%

A3. State Employees - Determination of Frozen Initial Liability

٠.			An Base	nortization Period		<u>Payment</u>
1.	June 30, 1990 bases at July 1, 1990					
	(a) Original(b) 1989 Base(c) 1989 Early Retirement Window(d) Total	\$	445,731,800 (49,393,400) 49,134,700 445,473,100	25 29 30	\$ \$	25,743,500 (2,601,600) 2,536,600 25,678,500
2.	Bases at July 1, 1991					
	 (a) Original (b) 1989 Base (c) 1989 Early Retirement Window (d) New 1991 Bases (e) 1990-91 Deferral (f) 1991-92 Deferral (g) Total 	\$ \$	453,587,400 (50,535,100) 50,325,900 (74,440,900) 23,409,900 20,264,600 422,611,800	24 28 29 30 24 24	\$	26,901,800 (2,718,600) 2,650,700 (3,843,000) 1,388,400 1,201,900 25,581,200
3.	Bases at July 1, 1992					
	 (a) Original (b) 1989 Base (c) 1989 Early Retirement Window (d) New 1991 Bases* (e) 1990/91 Deferral (f) 1991/92 Deferral (g) Total 	\$	460,820,400 (51,641,800) 51,489,200 (76,245,700) 23,783,200 20,587,700 428,793,000	23 27 28 29 23 23	\$ \$	28,112,200 (2,841,000) 2,770,000 (4,015,900) 1,450,900 1,255,900 26,732,100

^{*} In respect of the 1990 Early Retirement Window, change in Salary Scale and Change in Asset Method.

Notes: (1) Following the funding method, if the change in unfunded liability is greater than 10% of the existing amount of unfunded liability, the change in unfunded liability is separately amortized over a 30-year period.

The contribution deferral amounts are being separately amortized over the remaining amortization period of 24 years. This is an exception to the normal funding method where the contribution deferral amounts would be added to the other 1991 bases and then amortized together.

B1. Teachers - Development of Normal Cost

The valuation was made with respect to the following data supplied to us by the Retirement Board:

- 11,594 active participants (including 7,450 fully vested)
- 954 inactive participants

Actuarial present value of benefits

 4,826 pensioners (including 169 beneficiaries of deceased pensioners and active employees)

The actuarial factors as of the valuation date are as follows:

	(a) Active employees	\$ 1,726,701,600
	(b) Inactive employees	27,160,200
	(c) Retirees and beneficiaries	996,620,200
	(d) Total	\$ 2,750,482,000
2.	Actuarial value of assets	1,352,892,300
3.	Frozen Initial Liability (unfunded liability)	735,319,400
4.	Present value of future employee contributions	381,258,900

2.	Actuarial value of assets	1	,352,892,300
3.	Frozen Initial Liability (unfunded liability)		735,319,400
4.	Present value of future employee contributions		381,258,900
5.	Present value of future employer normal costs (1.(d) - 2 3 4.)		281,011,400
6.	Actuarial present value of future compensation	4	1,485,398,500
7.	Normal cost percentage (5. ÷ 6.)		6.27%
8.	Covered Payroll - Employees under Retirement Age		442,800,500
9.	Normal Cost, (7. x 8.)	\$	27,741,600

B3. Teachers - Determination of Frozen Initial Liability

			Base	Amortizatio Period	n –	Payment
1.	June 30, 1990 bases at July 1, 1990					
	(a) Original Unfunded	\$	711,780,500	25	\$	41,109,400
2.	Bases at July 1, 1991					
	(a) Original (b) New 1991 Bases ⁽¹⁾ (c) 1990/91 Deferral ⁽²⁾ (d) 1991/92 Deferral ⁽²⁾ (e) Total	\$	724,324,800 (43,847,500) 22,297,000 21,003,500 723,777,800		\$ \$	42,958,900 (2,600,500) 1,322,400 1,245,700 42,926,500
3.	Bases at July 1, 1992					
	 (a) Original⁽¹⁾ (b) New 1991 Bases (c) 1999/91 Deferral (d) 1991/92 Deferral (e) Total 	\$ \$	735,875,200 (44,546,800) 22,652,600 21,338,400 735,319,400	23 23 23 23	\$ \$	44,891,800 (2,717,600) 1,381,900 1,301,700 44,857,800

Notes: (1) If the change in the unfunded liability is less than 10% of the existing unfunded liability, the change in the unfunded liability is amortized over the remaining amortization period of the original unfunded liability.

The contribution deferral amounts are being separately amortized over the remaining amortization period of 24 years. This is an exception to the normal funding method where the contribution deferral amounts would be added to the other 1991 bases and then amortized together with the original unfunded.

EXHIBIT II - PENSION BENEFIT OBLIGATION, VESTED BENEFIT LIABILITY

Pension Benefit Obligation

The value of the pension benefit obligation required for disclosure by Statement No. 5 of the Governmental Accounting Standards Board is shown below as of June 30, 1992.

		Pension Benefit Obligation				
		State <u>Employees</u>	<u>Teachers</u>			
1.	Participants currently receiving benefits and terminated employees not yet receiving benefits	\$ 894,978,900 \$	1,023,780,400			
2.	Current employees					
	Accumulated employee contributions Employer-financed vested Employer-financed nonvested	208,611,800 250,716,100 148,855,400	299,102,600 483,872,500 266,974,900			
3.	Total pension benefit obligation	\$ 1,503,162,200 \$	2,073,730,400			
	ASSETS	1,092,464,600	1,399,495,400			
	UN LLAS	410,697,600	674,235,000			
		72.68%	67. 49 %			

EXHIBIT II - Pension Benefit Obligation, Vested Benefit Liability (cont'd)

Vested Benefit Liability

The value of vested benefits represents the current value of all benefits accrued by present and former employees which are not conditional on the future employment of the employee for payment. The benefits valued include benefits payable to current retirees and beneficiaries, deferred pensions and benefits accrued by active participants with at least ten years of service. For active employees with less than ten years of service, only the accumulated employee contributions are included.

The value of vested benefits as of June 30, 1992 is as follows:

	<u>Vested Benefit Liability</u> State		
	Employees		Teachers
Active participants Inactive participants Retired members	\$ 459,327,9 28,055,2 866,923,7	200	782,975,000 27,160,200 996,620,200
Total Value of Vested Benefits	\$ 1,354,306,8	300 \$	1,806,755,500
Assets at Market Value	\$ 1,092,464,6	soo \$	1,399,495,400
Vested Benefits Funding Level	80.6	87%	77.46%

EXHIBIT III - ACTUARIAL METHOD AND ASSUMPTIONS

a. Actuarial Funding Method

Actuarial Funding Method - Frozen initial liability method. This method is alternatively referred to as the entry age normal cost method with frozen initial liability.

Entry Age - The employee's age at the time he or she would have commenced participation if the plan had always been in existence.

Frozen actuarial liability - At the time this funding method was introduced June 30, 1985 the unfunded liability was calculated and called the Frozen Actuarial Liability. This amount was originally to be funded over a 30 year period by the sum-of-the-digits amortization method. Effective from 1989, however the outstanding balance, referred to as the Unfunded Liability, is to be amortized over the remaining amortization period using a level percent of salary funding. (ref. General Laws section 36-10-2 and 36-10-2.1). Subsequent changes to the Unfunded Liability due to changes to benefits or actuarial assumptions are amortized either over a new 30-year period or over the remaining initial amortization period depending on how large the total change to the unfunded liability for each fiscal year is relative to the existing unfunded liability. The following table illustrates the amortization method:

Amortization Period
No new base set up (existing Unfunded not changed)
The change to Unfunded is amortized over current remaining period i.e., aggregated with existing Unfunded
A separate base equal to change in Unfunded is set up and amortized over a new 30 year period

EXHIBIT III - Actuarial Method and Assumptions (cont'd)

b. Actuarial Assumptions Concerning Future Events

Mortality - 1971 Group Annuity Mortality Table with Mortality for disabled persons set equal to the age 65 mortality under 1971 Group Annuity Mortality Table.

	<u>Mort</u>	Expec	Expected Life		
<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>	
20	.050%	.026%	55.3 yrs.	61.6 yrs.	
25	.062	.035	50.4	56.7	
30	.080	.047	45.6	51.8	
35	.112	.065	40.8	47.0	
40	.163	.094	36.1	42.1	
45	.292	.140	31.4	37.4	
50	.529	.215	26.9	32.6	
55	.852	.326	22.8	28.0	
60	1.312	.549	18.8	23.5	
65	2.126	.956	15.2	19.3	
70	3.611	1.648	11.9	15.3	

Investment Return - 8.0%, compounded annually.

Salary Increases - Salaried will increase at a rate of 4.5%, compounded annually.

Retirement Age - State employees are assumed to retire at the later of age 62-1/2 or completion of the service requirements. Teachers are assumed to retire at the later of age 61 or completion of the service requirements.

Disability - Disability is assumed to occur in accordance with the following table with 15% of disabilities being occupational.

<u>Disability</u> <u>Age</u>	- Sample Rates Rate of Disability
20	.06%
25	.09
30	.11
35	.15
40	.22
45	.36
50	.61
55	1.01
60	

EXHIBIT III - Actuarial Method and Assumptions (cont'd)

Withdrawal - Termination of service for reasons other than death, retirement, or disability will be in accordance with the following tables.

Sample Withdrawal Rates

<u>Age</u>	State Employees	<u>Teachers</u>
20	21.20%	12.39%
25	15.80%	9.70%
30	11.60%	7.50%
35	8.40%	5.66%
40	6.20%	4.14%
45	4.20%	2.75%
50	2.60%	1.35%
55	·	
60		

Cost of Living Adjustments - 3% compound annually beginning on the January 1st following a participant's third anniversary of retirement.

Actuarial Value of Assets - The actuarial value of assets was set equal to the market value of assets as of June 30, 1991 as reported to Mercer by the Treasury Department in December 1991. Investment gains and losses relative to the expected return on assets from this date onward will be recognized over a 3-year smoothing period.

Estimation of Unknown Employee Characteristics - Missing dates for participants are estimated using a band-type averaging method assigning band grouped average dates to those individuals with missing dates of birth or hire. For example, an employee missing a date of hire is given an estimated date of hire based on the average of known dates of hire for persons in his age band. For Employees who are missing salaries, salaries are estimated based on employee contributions for the year ending June 30, 1992 and with regard to employee salary history, where this information was insufficient, average salaries were used. For State Employees this is \$28,200, and for Teachers it is \$38,700 for the salary year July 1, 1991 to June 30, 1992.

EXHIBIT IV - SUMMARY OF PLAN PROVISIONS

PLAN NAME	Employees' Retirement System of the State of Rhode Island
FINAL AVERAGE SALARY	Final average salary is the three highest consecutive years of earned salary exclusive of overtime, bonuses, or severance pay.
NORMAL RETIREMENT	Age and Service Requirements
	General Employees may retire with full accrued benefits at age 60 with 10 years of service or after 28 years of service regardless of age.
	Correctional Officers may retire with unreduced accrued benefits at age 50 with 20 years of service.
	Legislators may retire with unreduced accrued benefits at age 55 with 8 years of service or after 20 years of service with no restriction on age.
	Amount of Retirement Benefits
	For State Employees and Teachers:
	1.7% of final average salary times service up to 10 years, plus
	1.9% of final average salary times service in excess of ten years through 20 years, plus
	3.0% of final average salary times service in excess of 20 years up to the 34th year of service, plus
	2.0% of final average salary for the 35th year.

Maximum benefit is 80% of final average salary.

EXHIBIT IV - Summary of Plan Provisions (cont'd)

For Correctional Officers:

2.0% of final average salary for the first 30 years of service, plus
6.0% of final average salary for the 31st year, plus
5.0% of final average salary for the 32nd year, plus
4.0% of final average salary for the 33rd year, plus
3.0% of final average salary for the 34th year, plus
2.0% of final average salary for the 35th year.
Maximum benefit is 80% of final average salary.

For Legislators:

\$600 per year of service. Maximum benefit is \$12,000.

DISABILITY BENEFIT

Non-occupational

Service Requirement: 5 years

Amount of Benefit: Regular pension benefit based on service to disability and final average salary at time of disability. The minimum benefit is 17% of final average salary.

Occupational

There is no age or service requirements for the occupational disability benefit.

Amount of Benefit: Two thirds of final salary at time of disability, payable immediately.

VESTING

Employees are vested in their retirement benefits on completion of 10 years of service.

EXHIBIT IV - Summary of Plan Provisions (cont'd)

PRE-RETIREMENT DEATH BENEFITS

Lump Sum Benefit

There are no age or service requirements for this benefit.

Amount of Benefit:

- (a) \$800 per year of service with a minimum of \$4,000 and a maximum of \$16,000, plus
- (b) Refund of employee contributions.

Joint and Survivor Benefit (optional)

Service Requirement: 10 years for General Employees and Correctional officers, 8 years for Legislators.

Amount of Benefit: Benefit employee would have received had he/she retired the day before he/she died and chosen the joint and survivor option.

Occupational Death Benefit

This benefit has no age or service requirement.

Amount of benefit:

- (a) 50% of salary to spouse or children of employees under age 18, less workmen's compensation, plus
- (b) refund of employee contributions.

EXHIBIT IV - Summary of Plan Provisions (cont'd)

POST-RETIREMENT DEATH BENEFITS	Lump sum in the amount of:				
	(a) 100% of employee contributions less benefits paid, plus				
	(b) Pre-retirement death benefit, reduced 25% per year of retirement, with a minimum of \$4,000.				
EMPLOYEE CONTRIBUTIONS	State Employees: 7.75% of which .25% reflects contributions for post-retirement health benefits.				
	Teachers: 8.5% Legislators: 30.0%				
AVAILABLE BENEFIT OPTIONS	Joint and Survivor: Actuarially Equivalent Benefit paying either 100% or 50%, depending on option selected, of retirement benefit to surviving beneficiary.				
	Social Security: Pays an increased benefit until age 62 and a reduced benefit thereafter to provide a level benefit when Social Security payments are accounted for.				
POST-RETIREMENT COST OF LIVING ADJUSTMENT	Retirees' benefits are adjusted annually by 3%, compounded, to allow for increases in cost of living.				
	Cost of living adjustments begin on the January 1st following the third anniversary of an employee's retirement.				

APPENDIX - Model Letter to Cities and Towns Participating in the Teacher's Retirement Plan

The (city) (town) of	provides retirement benefits to its public
school teachers through its participation	in the Rhode Island Retirement System. The system
is a statutory, mandatory, state-wide, m	ultiple retirement system, which first covered Rhode
Island teachers on July 1, 1949. It is a	Iministered by the State Retirement Board, the
composition of which is set forth in the	pertinent state statute. The assets are held in the
custody of the State Treasurer as an un	divided single fund.

The actuarial costs of the retirement benefits are partially funded by teacher contributions of 8-1/2 percent of pay effective July 1, 1986. The net employer actuarial costs are determined annually by the actuary and, as provided by statute, are certified by the Retirement Board to the Department of Administration. Contributions are reported as a percent of payroll, payable in part by the State of Rhode Island and in part by the (city) (town). The split between the State and Municipality is specified in the statute. For fiscal year 1993-94, by statute the State will pay 40% and the Municipality will pay 60%.

The actuarial valuation prepared by William M. Mercer, Incorporated uses the entry age normal cost method with the frozen initial liability. The valuation assumes an 8 percent interest return on assets and assumes an annual salary increase of 4.5%. In addition, other actuarial assumptions are made for post-retirement increases and other contingencies as set forth in the published annual reports of the Retirement Board. Following are comparative highlights of the last three years for the Teachers system as a whole:

		_	Year	Beginning July	<u>1,</u>	
		<u>1992</u>		<u>1991</u>		<u>1990</u> *
Active participants		11,590		11,420		10,778
Pensioners and beneficiaries		4,826		4,834		3,869
Inactive participants		954**		2,294		3,069
Liability for accrued vested benefits	\$1,80	6,755,500	\$ 1	,672,008,200	\$1	,284,910,600
Net assets at actuarial value	1,35	2,892,300	1	,261,831,500	1	,037,737,400
As shown in State's financial statements:				or England Jones O	_	
		<u>1992</u>	<u>yea</u>	r Ended June 3 1991	<u>U,</u>	1990*
Employer contributions	\$	49,361,171	\$	47,201,290	\$	82,435,940
Member contributions		38,883,346		36,701,446		37,159,860
Total contributions	\$	88,244,517	\$	83,902,936	\$	119,595,800
Net miscellaneous income		388,422		478,768		(4,440,352)
Investment income		141,936,132		74,965,344		63,912,874
Total income available for benefit payments	\$	230,569,071	\$	159,347,048	\$	179,068,323
Benefit payments		100,009,279		100,362,397		64,603,816
Excess of income over expenses	\$	130,559,792	\$	58,984,651	\$	114,464,507

Note: Detail figures may not add to totals shown because of rounding.

^{*} Prepared by previous actuary.

^{**} The database as of June 30, 1992 reflects the withdrawal of inactive participants contribution balances.

Actuarial costs and liabilities, as shown in the summary presentation, are determined in the aggregate for the Teachers System. Accordingly, employer contributions are first determined in the aggregate for all participating employers in this multiple employer system and are then expressed as a percentage of the aggregate participating payroll. Each participating City or Town for 1994 fiscal year will apply 60% of this factor to its participating payroll (the remaining forty percent of the employer cost is contributed by the State as well as the full cost of deferred contributions by the State).				
Employer contributions by the (city) (tow last 2 years (together with the amount f percent of 9.26%*) are as follows:				
	<u>1990</u>	Year Ended June 30, 1991	1992	
Participating payroll				
Employer contributions				

With respect to the Teachers Retirement System, William M. Mercer, Incorporated, independent actuaries advising the Retirement Board, have stated:

"We believe that the funding program set forth in the state statute is a reasonable basis for funding the Rhode Island Teachers Retirement System. If the statutory funding program is followed without change, the System will be fully funded - that is, the assets will equal the actuarial liability on June 30, 2022. In the interim the assets are projected to be sufficient at all times to meet the cash requirements for projected benefit payments."

According to the statutory funding schedule, the combined contributions required each year by the (city) (town) of ______ and the State will remain relatively level as a percent of payroll as the System moves toward funding the full actuarial liability. Ultimately,

however, because the actuarial funding results in the accumulation of reserves that are invested, the required appropriation will be significantly less than would be required if this System were on a pay-as-you-go basis.

* The promulgated rate percent for certain towns which did not participant in the 1990 early retirement incentive program is 8.21%. These towns are listed below:

Code	2003	Burrillville
	2009	East Greenwich
	2015	Jamestown
	2018	Little Compton
	2025	North Smithfield